Contents of Volume 34, 1995

Number One (G321-0119)

Collecting product-based usability requirements 4
M. F. DiAngelo and C. J. Petrun (G321-5555)

A real-time systems context for the framework for information systems architecture 20
D. J. Schoch and P. A. Laplante (G321-5556)

The CORDS multidatabase project 39
G. K. Attaluri, D. P. Bradshaw, N. Coburn, P.-A. Larson, P. Martin, A. Silberschatz, J. Slonim, and Q. Zhu (G321-5557)

Next generation air traffic control automation 63
A. S. Debelack, J. D. Dehn, L. L. Muchinsky, and D. M. Smith (G321-5558)

Intelligent agents extend knowledge-based systems feasibility 78
G. Elofson (G321-5559)

Experiences with object-oriented group support software development 96
S. C. Hayne and M. Pendergast (G321-5560)

ABC++: Concurrency by inheritance in C++ 120
E. Arjomandi, W. O'Farrell, I. Kalas, G. Koblents, F. Ch. Eigler, and G. R. Gao (G321-5561)

Technical forum 138
The role of IBM's Open Blueprint approach in distributed computing
J. A. Colosimo

Number Two (G321-0120)

The power and promise of parallel computing 146
I. Wladawsky-Berger (G321-5562)

SP2 system architecture 152
T. Agerwala, J. L. Martin, J. H. Mirza, D. C. Sadler, D. M. Dias, and M. Snir (G321-5563)

The SP2 High-Performance Switch 185
C. B. Stunkel, D. G. Shea, B. Abali, M. G. Atkins, C. A. Bender, D. G. Grice, P. Hochschild, D. J. Joseph, B. J. Nathanson, R. A. Swetz, R. F. Stucke, M. Tsao, and P. R. Varker (G321-5564)

The communication software and parallel environment of the IBM SP2 205
M. Snir, P. Hochschild, D. D. Frye, and K. J. Gildea (G321-5565)

Parallel file systems for the IBM SP computers 222
P. F. Corbett, D. G. Feitelson, J.-P. Prost, G. S. Almasi, S. J. Baylor, A. S. Bolmarcich, Y. Hsu, J. Satran, M. Snir, R. Colao, B. D. Herr, J. Kavaky, T. R. Morgan, and A. Zlotek (G321-5566)

Experiences with the IBM SP1 249
W. D. Gropp and E. Lusk (G321-5567)

High-performance parallel implementations of the NAS kernel benchmarks on the IBM SP2 263
R. C. Agarwal, B. Alpern, L. Carter, F. G. Gustavson, D. J. Klepacki, R. Lawrence, and M. Zubair (G321-5568)

A scalable implementation of the NAS Parallel Benchmark BT on distributed memory systems 273
V. K. Naik (G321-5569)

DB2 Parallel Edition 292
C. K. Baru, G. Fecteau, A. Goyal, H. Hsiao, A. Jhingran, S. Padmanabhan, G. P. Copeland, and W. G. Wilson (G321-5570)

Number Three (G321-0121)

Multiprotocol networking—a blueprint 330
M. L. Hess, J. A. Lorrain, and G. R. McGee (G321-5571)

Local area networks—Evolving from shared to switched access 347
K. J. Christensen, L. C. Haas, F. E. Noel, and N. C. Strole (G321-5572)

ATM: Paving the information superhighway 375
R. A. Sultan and C. Basso (G321-5573)

IBM Wireless RF LAN design and architecture 390
F. J. Bauchot and F. Lanne (G321-5574)

Data link switching: Present and future 409
P. W. Gayek (G321-5575)

Contents of Volume 34, 1995

Number One (G321-0119)

Collecting product-based usability requirements 4
M. F. DiAngelo and C. J. Petrun (G321-5555)

A real-time systems context for the framework for information systems architecture 20
D. J. Schoch and P. A. Laplante (G321-5556)

The CORDS multidatabase project 39
G. K. Attaluri, D. P. Bradshaw, N. Coburn, P.-A. Larson, P. Martin, A. Silberschatz, J. Slonim, and Q. Zhu (G321-5557)

Next generation air traffic control automation 63
A. S. Debelack, J. D. Dehn, L. L. Muchinsky, and D. M. Smith (G321-5558)

Intelligent agents extend knowledge-based systems feasibility 78
G. Elofson (G321-5559)

Experiences with object-oriented group support software development 96
S. C. Hayne and M. Pendergast (G321-5560)

ABC++: Concurrency by inheritance in C++ 120
E. Arjomandi, W. O'Farrell, I. Kalas, G. Koblents, F. Ch. Eigler, and G. R. Gao (G321-5561)

Technical forum 138
The role of IBM's Open Blueprint approach in distributed computing
J. A. Colosimo

Number Two (G321-0120)

The power and promise of parallel computing 146
I. Wladawsky-Berger (G321-5562)

SP2 system architecture 152
T. Agerwala, J. L. Martin, J. H. Mirza, D. C. Sadler, D. M. Dias, and M. Snir (G321-5563)

The SP2 High-Performance Switch 185
C. B. Stunkel, D. G. Shea, B. Abali, M. G. Atkins, C. A. Bender, D. G. Grice, P. Hochschild, D. J. Joseph, B. J. Nathanson, R. A. Swetz, R. F. Stucke, M. Tsao, and P. R. Varker (G321-5564)

The communication software and parallel environment of the IBM SP2 205
M. Snir, P. Hochschild, D. D. Frye, and K. J. Gildea (G321-5565)

Parallel file systems for the IBM SP computers 222
P. F. Corbett, D. G. Feitelson, J.-P. Prost, G. S. Almasi, S. J. Baylor, A. S. Bolmarcich, Y. Hsu, J. Satran, M. Snir, R. Colao, B. D. Herr, J. Kavaky, T. R. Morgan, and A. Zlotek (G321-5566)

Experiences with the IBM SP1 249
W. D. Gropp and E. Lusk (G321-5567)

High-performance parallel implementations of the NAS kernel benchmarks on the IBM SP2 263
R. C. Agarwal, B. Alpern, L. Carter, F. G. Gustavson, D. J. Klepacki, R. Lawrence, and M. Zubair (G321-5568)

A scalable implementation of the NAS Parallel Benchmark BT on distributed memory systems 273
V. K. Naik (G321-5569)

DB2 Parallel Edition 292
C. K. Baru, G. Fecteau, A. Goyal, H. Hsiao, A. Jhingran, S. Padmanabhan, G. P. Copeland, and W. G. Wilson (G321-5570)

Number Three (G321-0121)

Multiprotocol networking—a blueprint 330
M. L. Hess, J. A. Lorrain, and G. R. McGee (G321-5571)

Local area networks—Evolving from shared to switched access 347
K. J. Christensen, L. C. Haas, F. E. Noel, and N. C. Strole (G321-5572)

ATM: Paving the information superhighway 375
R. A. Sultan and C. Basso (G321-5573)

IBM Wireless RF LAN design and architecture 390
F. J. Bauchot and F. Lanne (G321-5574)

Data link switching: Present and future 409
P. W. Gayek (G321-5575)

Advances in APPN architecture 430
R. Bird, C. Brotman, R. Case, G. Dudley, R. E. Moore, and M. Peters (G321-5576)

TCP/IP: The next generation 452
E. G. Britton, J. Tavs, and R. Bournas (G321-5577)

Multiprotocol Transport Networking: Eliminating application dependencies on communications protocols 472
D. Pozefsky, R. Turner, A. K. Edwards, S. Sarkar, J. Mathew, G. Bollella, K. Tracey, D. Poirier, J. Fetvedt, W. S. Hobgood, W. A. Doeringer, and D. Dykeman (G321-5578)

CPI-C: An API for distributed applications 501
W. S. Arnette, A. D. Kshemkalyani, W. B. Riley, J. P. Sanders, P. J. Schwaller, J. C. Terrien, and J. Q. Walker (G321-5579)

An architecture for multimedia communication and real-time collaboration 519
B. K. Aldred, G. W. Bonsall, H. S. Lambert, and H. D. Mitchell (G321-5580)

Number Four (G321-0122)

An ATM strategy for IBM networking systems 554
M. E. Cohen and D. S. Abensour (G321-5581)

Overview of the NBBS architecture 564
G. A. Marin, C. P. Immanuel, P. F. Chimento, and I. S. Gopal (G321-5582)

Multicast network connection architecture 590
N. Budhiraja, M. Gopal, M. Gupta, E. A. Hervatic, S. J. Nadas, and P. A. Stirpe (G321-5583)

NBBS traffic management overview 604
H. Ahmadi, P. F. Chimento, R. A. Guérin, L. Gün, B. Lin, R. O. Onvural, and T. E. Tedijanto (G321-5584)

NBBS path selection framework 629
T. E. Tedijanto, R. O. Onvural, D. C. Verma, L. Gün, and R. A. Guérin (G321-5585)

Efficient transport and distribution of network control information in NBBS 640
M. Peyravian, R. Bodner, C.-S. Chow, and M. Kaplan (G321-5586)

Access services for the Networking BroadBand Services architecture 659
C. P. Immanuel, G. M. Kump, H. J. Sandick, D. A. Sinicrope, and K. V. Vu (G321-5587)

Enabling ATM networks 672
R. O. Onvural, H. J. Sandick, G. M. Kump, E. A. Hervatic, and P. F. Chimento (G321-5588)

The NBBS access node 694
N. Budhiraja, M. Gopal, M. Gupta, E. A. Hervatic, S. J. Nadas, P. A. Stirpe, L. A. Tomek, and D. C. Verma (G321-5589)

A high-performance transport network platform 705
G. Lebizay, C. Galand, D. Chevalier, and F. Barre (G321-5590)

NBBS network management 725
S. A. Owen (G321-5591)

Note—Numbers in parentheses after issue numbers and after authors' names denote the Reprint Order Numbers.